

## JUSTIFICATION FOR SOLE SOURCE/BRAND NAME SOLE SOURCE <\$150K

PLEASE FILL IN ALL APPLICABLE BLOCKS BELOW.  
A NARRATIVE MUST BE ADDED TO ALL APPLICABLE SECTIONS.

<b>PO Number:</b>		
The effort listed on this form is for: ( <u>please mark one</u> ):	<input checked="checked" type="checkbox"/> Supply	<input type="checkbox"/> Service
The material and/or service listed on this form is ( <u>please mark one</u> ):	<input checked="checked" type="checkbox"/> Sole Source	<input type="checkbox"/> Brand Name

### Restricted to the following source or manufacturer:

- Manufacturer/Source: Woods Hole Oceanographic Institution

- POC and Phone Number: [REDACTED]

- Address:  
Woods Hole Oceanographic Institution  
266 Woods Hole Rd.  
MS# 11  
Woods Hole, MA 02543-1050

### Description of the item(s) or service(s) required and the estimated cost(s):

Item#	MFG Name	MFG Part#	Description	Qty	U/I	Unit Price	Ext Price
1	WHOI	n/a	REMUS-100 MF source module	1	pkg	[REDACTED]	[REDACTED]

\*\*\* If additional items are required, please provide on a separate spreadsheet

1. List the Required Delivery Date (RDD) or Period of Performance (POP):

60-days from award of contract

2. Specify characteristics of the material or service that limit the availability to a sole source/brand product (unique features, function of the item, etc.). Describe in detail why only this source/brand can furnish the requirements to the exclusion of other sources/brands.

The module is not commercially available. Cost of development and time for development make it unfeasible to meet our requirements and budget.

The mid-frequency acoustic source module must an interchangeable sensor package module capable of being integrated into a REMUS-100 AUV platform similar to other sensor packages such as ADCPs. The module must mount "in-line" on a standard 7.5in diameter REMUS-100 hull, use standard REMUS-100 electrical and ethernet connections, and the module length must not exceed 24 inches. It must also meet the following functional performance criteria:

- Operational signal transmission band: 950 Hz (+/-15 Hz)
- Capable of generating CW tones and FM "chirps" up to 30Hz bandwidth within operational band
- Source level output of at least 160 dB\\1μPa\\1m over the operational band

3. Indicate if the requested material or service represents the minimum requirements of the Government.

The WHOI REMUS-100 source module meets the minimum requirement of the Government.

4. Indicate if the material or service must be compatible in all aspects (form, fit, and function) with existing systems presently installed/performing. Describe the equipment/function you have now and how the new item/service must coordinate, connect or interface with the existing system.

The mid-frequency source module is a new sensor system that must fit onboard an existing NPS REMUS-100 research AUV to be fully functional as a mobile source in support of laboratory field work. The REMUS-100 AUV is designed to operate with a variety of interchangeable sensor modules (eg, ADCPs) attached in-line with the REMUS hull. This mobile source module is similar in this regard and will be mounted in essentially the same configuration while interfacing with the AUV control system using similar power and communication connections.

5. Does a patent, copyright or proprietary data limit competition? No
6. Are the items "direct replacement" parts/components for existing equipment? If so, provide the information about the Next Higher Assembly (NHA)/equipment which the replacement parts are going into (e.g., description, model, part number, Original Equipment Manufacturer (OEM), etc.).

This is not a direct replacement part or component.

7. Provide any additional information to support a sole source/brand name sole source procurement. The rationale must justify "either" substantial duplication of cost to the Government that is not recovered through competition or unacceptable delays in fulfilling the mission of the agency.

Development of a new system would levy a significantly higher cost and impose an unacceptable delay in fulfilling the objectives of this project.

\*\*\* If additional space is required, please attach a continuation sheet.

**TECHNICAL OR REQUIREMENTS CERTIFICATION**

I CERTIFY THAT THE STATEMENTS CHECKED, AND INFORMATION PROVIDED ABOVE ARE COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I UNDERSTAND THAT THE PROCESSING OF THIS SOLE SOURCE/BRAND NAME SOLE SOURCE JUSTIFICATION PRECLUDES THE USE OF FULL AND OPEN COMPETITION.

Printed Name: [REDACTED]	Signature: [REDACTED]
Title: [REDACTED]	Date: [REDACTED]

**CONTRACTING OFFICER APPROVAL:**

Printed Name: [REDACTED]	Signature: [REDACTED]
Title: [REDACTED]	Date: [REDACTED]